



# UNIVERSITY OF SARGODHA

## **Project Title**

BPE : Airlines Management System

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# BPE Airlines Management System Documentation

## Project Title

BPE : Airlines Management System

## Project Purpose

We created a system to help airlines work better. It makes booking flights, managing crews, and helping passengers easier.

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#### 1. Introduction

Our goal is to make airlines better. We made a system that helps with booking flights, managing crews, and making passengers happy.

#### 2. What We're Doing

Our system covers everything airlines need: booking flights, managing crews, helping passengers, and even checking how things are going.

#### 3. How It Works

Airlines in Pakistan including PIA have many flaws therefore we have decided to make a system that is more flexible in its management and everything.

#### 4. What It Does

It helps with booking flights, making sure crews are where they need to be, tracking baggage, checking in passengers, and showing real-time flight updates. There's also a dashboard for airlines to see how things are going.

#### 5. Who Uses It

Different people use the system. Some manage everything, some take care of flights, some help passengers, and some just want to check their flight info.

#### 6. What We Used

We used some tools to build this - like **six sigma**, **DMAIC**, and **MySQL** to store information.

### 7. How We Store Info

We keep information in a smart way using PostgreSQL. It has different tables for flights, bookings, passengers, and crews.

### 8. How It Looks

The system looks nice and is easy to use on computers or phones. We made sure it works well for everyone.

### 9. How We Keep It Safe

We put on a virtual lock and key to keep information safe. Only the right people can access it.

### 10. Making Sure It Works

We tested it a lot to make sure it doesn't have problems. Like checking each part to make sure it does its job.

### 11. Getting It Out There

We put it on the internet so airlines can use it. It's like setting up a shop - now everyone can come and use it.

## Overview

Our system helps airlines be better, which is what the business plan wants. Involves deciding the name, type of planes and other parameters.

## Production

It helps airlines work well by managing crews, saving money, and making sure everything runs smoothly.

## Marketing

Airlines can use our system to make passengers happy and show they're a good choice. This helps them attract more customers.

## Financials

Our system can save airlines money by making things more efficient. This is good for their finances.

## Scalability

Our system can grow with airlines if they get bigger. It's like adding more rooms to a house when the family grows.

Our system is here to make airlines better. It helps with booking flights, managing crews, and making passengers happy. It fits with what airlines want to achieve.